SERVICE MANUAL & PARTS LIST (with price)

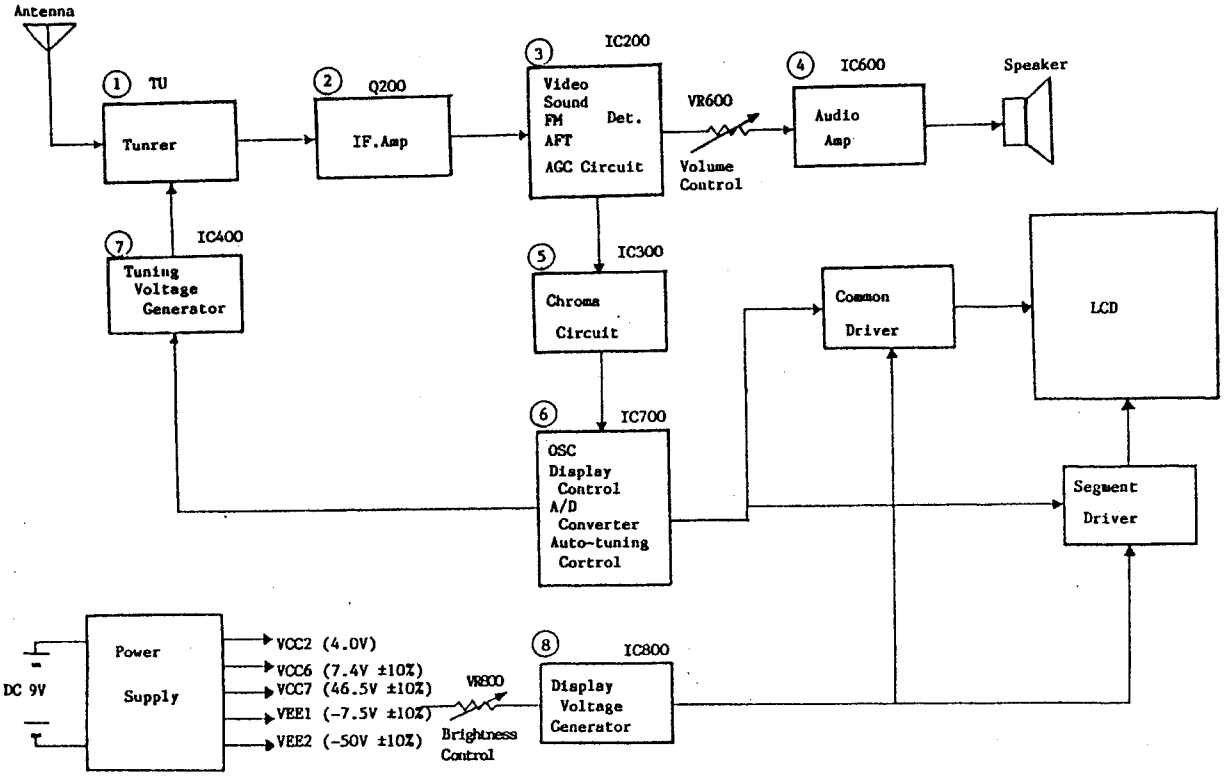
POCKET TELEVISION

TV-7500 (KX-333CA/CF)

AUGUST 1988

CASIO®

BLOCK DIAGRAM



1. **Tuner: TU**
   Picks up a desired radio wave, and converts it into IF signal.

2. **IF Amp.: Q200**
   Amplifies IF signal output from the tuner by approximately 10 times.

3. **Video, Sound, FM Det., AGC: IC200**
   Picks up the video signal and the sound IF signal by detecting IF signal.
   Also picks up the sound signal from the sound IF signal by FM detection.
   AGC circuit compensates reception inferiority caused by radio wave.

4. **Audio Amp.: IC600**
   Amplifies the sound signal.

5. **Chroma Circuit: IC300**
   Picks up three colors of Red, Green and Blue from the video signal.

6. **OSC, A/D Converter, Display Control, Auto-tuning Control: IC700**
   Converts the color signal into the digital signal.
   Also generates the clock pulse for the display, and controls the display.

7. **Tunig Voltage Generator: IC400**
   Generates the tuning voltage.

8. **Display Voltage Generator: IC800**
   Generates the display voltage V0 to V4 from VEE1/2 and VCC6/7 output from the power supply.

CIRCUIT OPERATIONS

Power supply

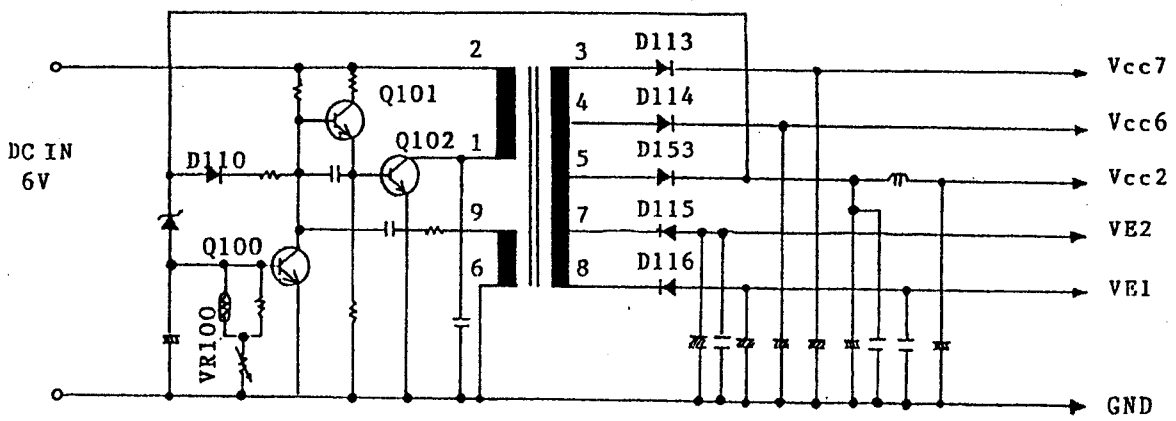


Fig.1

DC-DC converter is a main component in the power supply, and tabel 1 shows voltages output from the power supply.

Terminal	Voltage	Purpose
VCC2	4.0 V	Logic circuit
VCC6	7.4 V ± 10%	Display
VCC7	46.5V ± 10%	Display/Tuning
VEE1	-7.5 V ± 10%	Display
VEE2	-50.0V ± 10%	Display

Table 1

Tuning voltage generator

IC400 (MSC1169) is a main component in this cuircuit, and generates the tuning voltage BT by receiving the TU signal generated from IC700 (MSM6331) on the A/D PCB.

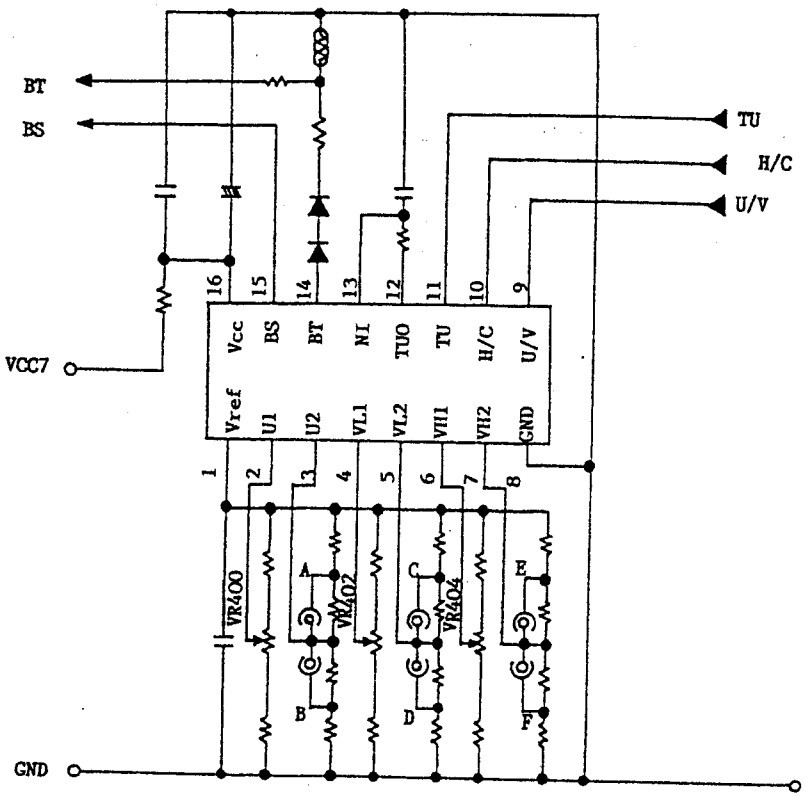


Fig.2

Variable resistors VR400 ~ VR404 and sodering pads A ~ F determine the characteristics of the tuning voltage BT.
If these variable resistors and soldering pads are not adjusted correctly, the tuning indicator does not match with the channel display.

Table 2 shows functions of each variable resistors and soldering pads.

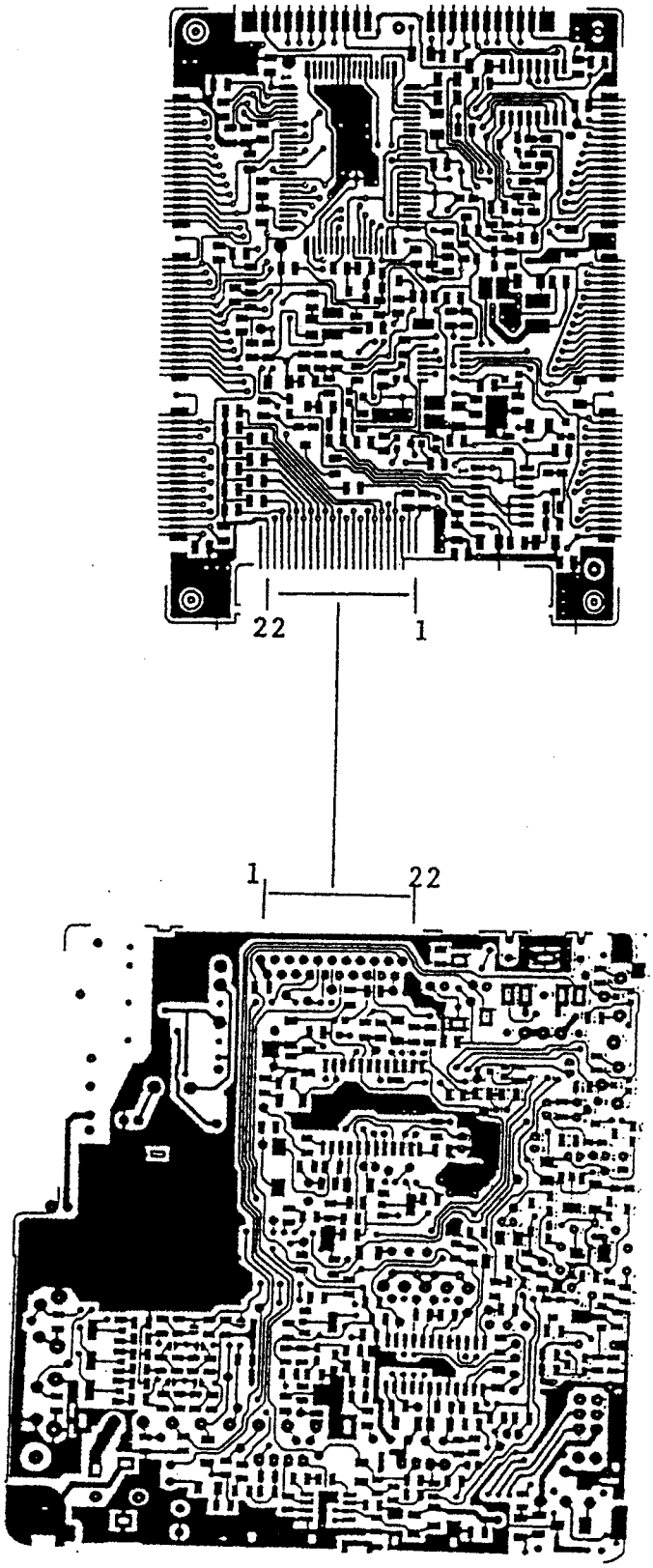
VR No.	Functions
VR402, C, D	VHF (L) indicator adjustment
VR404, E, F	VHF (H) indicator adjustment
VR400, A, B	UHF indicator adjustment

Table 2

ADJUSTMENT

Adjustment point	Adjustment	P C B
VCC2 voltage	☆ Make this adjustment whenever repairing. ○ Adjust VR100 so that VCC2 is 4.0 V	Linear
Video detection coil	☆ Make this adjustment when sensitivity or receiving is poor. ○ Adjust T200 with watching the screen.	Linear
AFT coil	☆ Make this adjustment when the auto-tuning does not stop. ○ Adjust T201 so that the auto-tuning stops.	Linear
Contrast	☆ Make this adjustment when the contrast is not good. ○ Adjust VR300 with watching the screen.	Linear
AGC	☆ Make this adjustment when no reception is possible at all or the sensitivity is extremely bad. ○ Adjust VR200 with watching the screen.	Linear
Clock pulse	☆ Make this adjustment when no synchronization is gained. ○ Adjust VR700 with watching the screen.	A/D

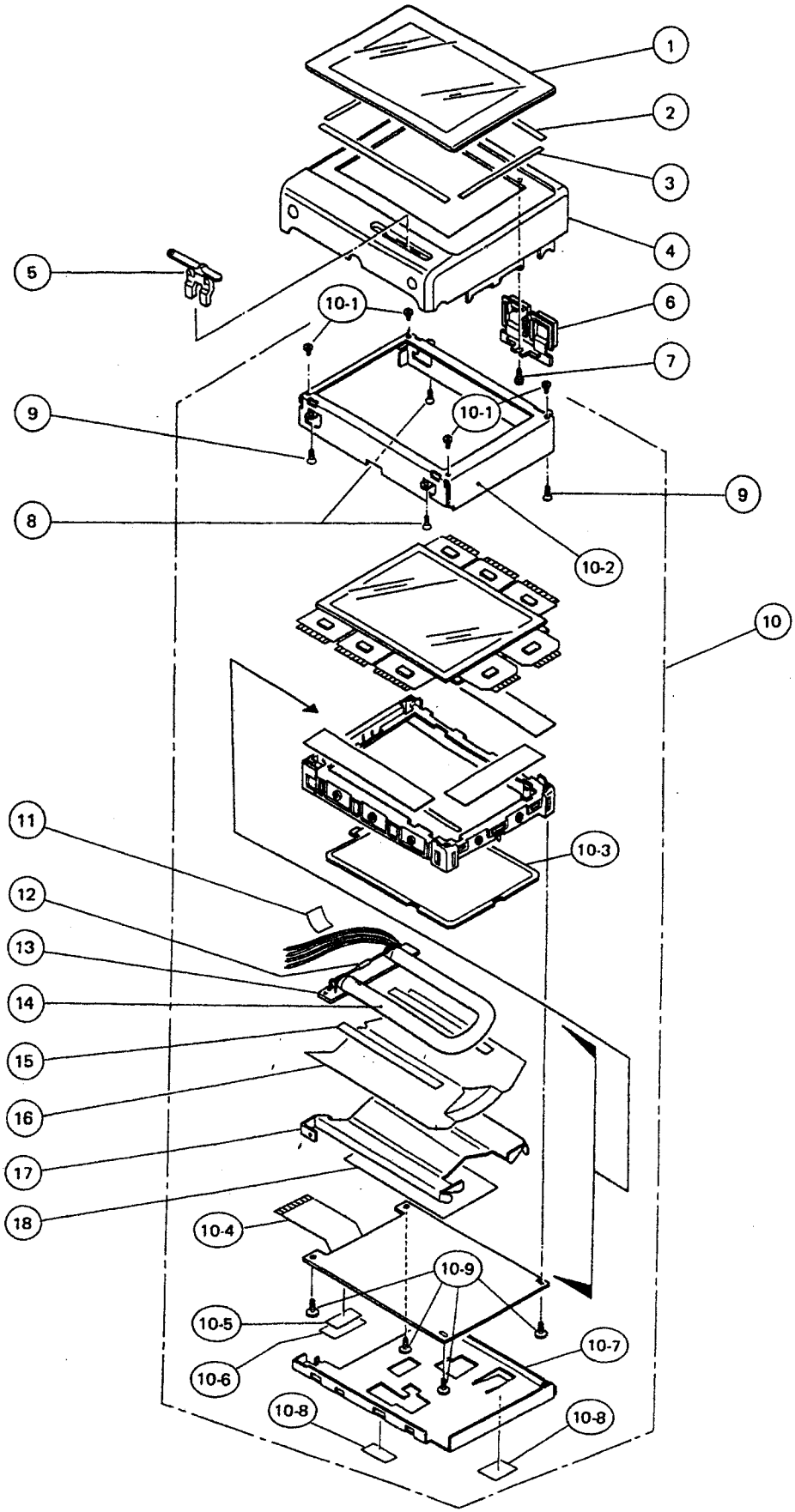
WIRING DIAGRAM

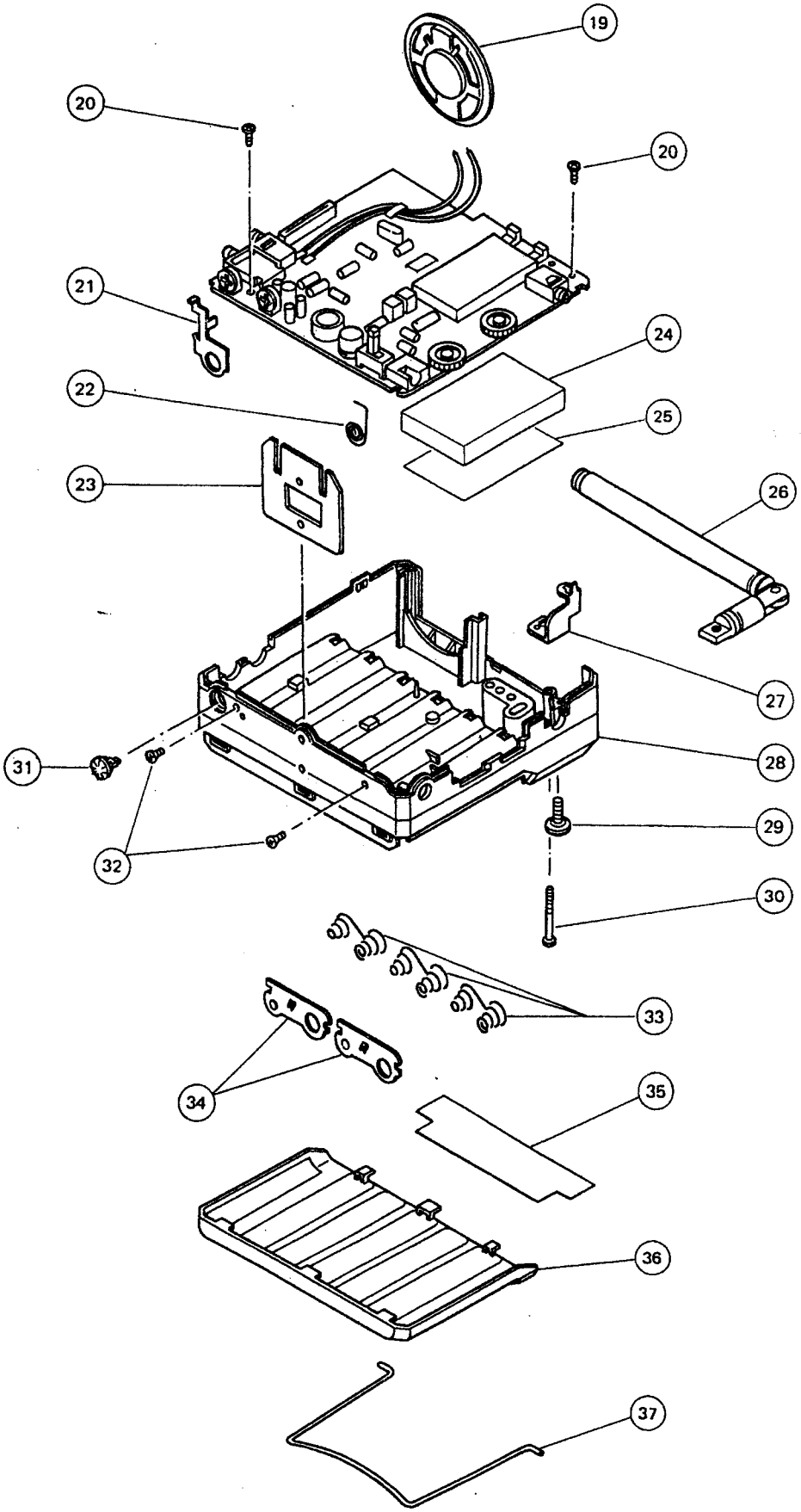


A/D PCB

Linear PCB

EXPLODED VIEW / DISASSEMBLY

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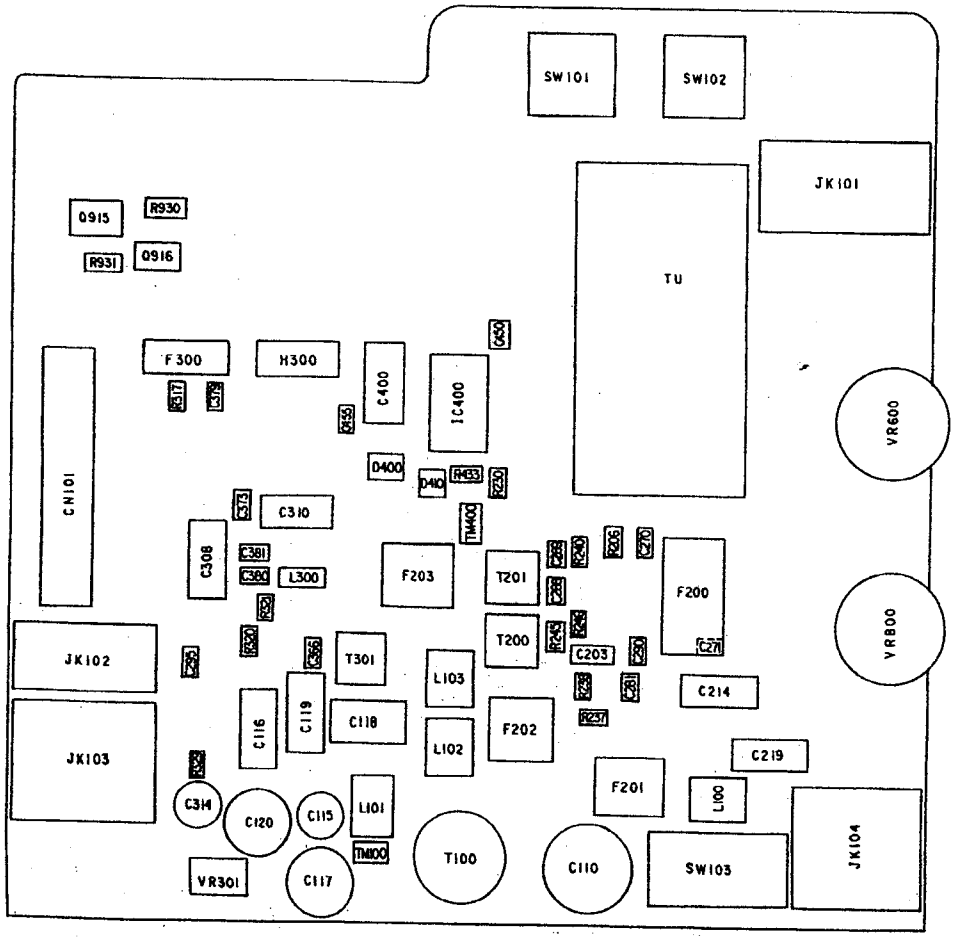
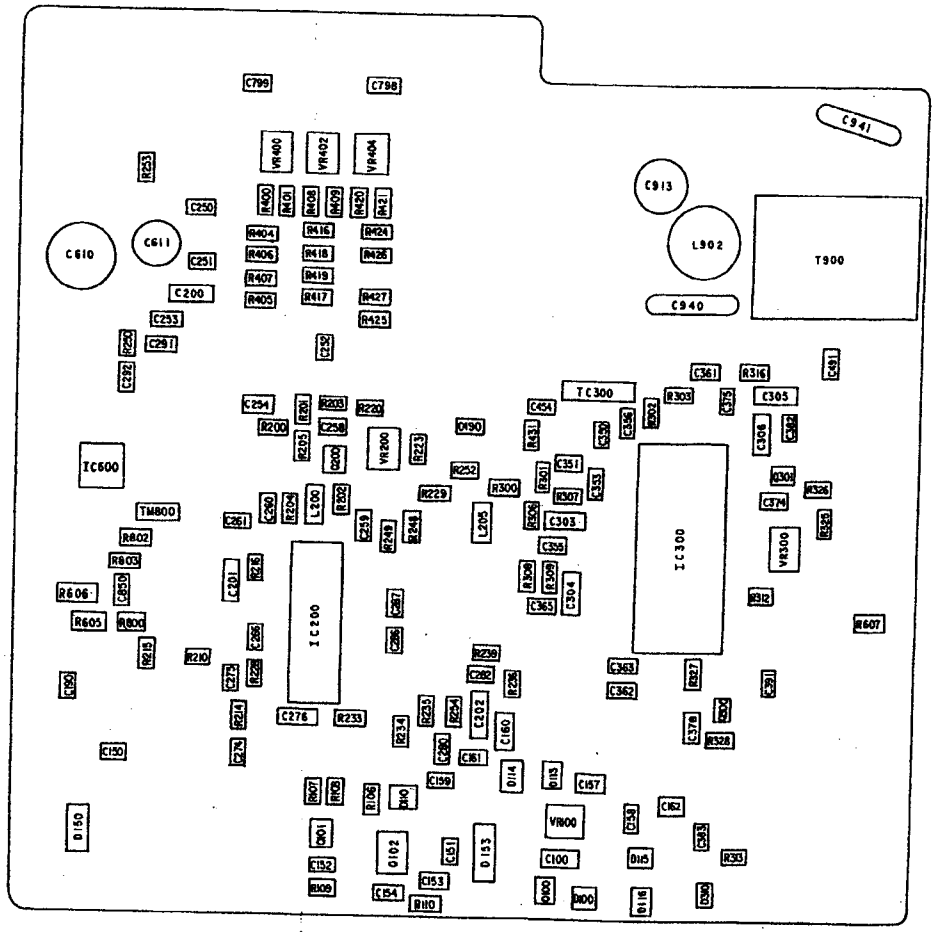
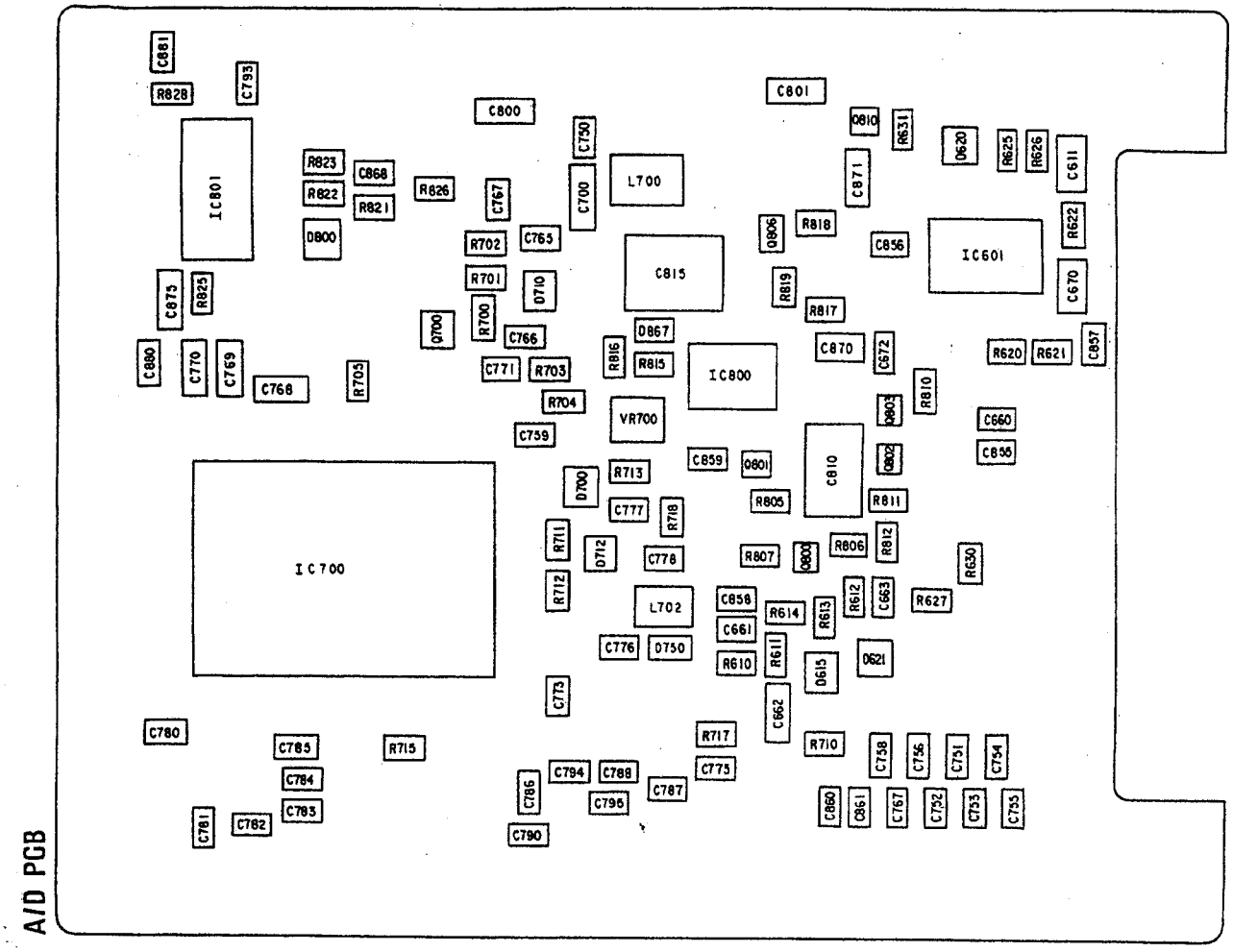
COMPONENT LOCATIONS

Linear PCB (Top view)



Linear PCB (Bottom view)




A/D PCB
C881
R828
C793
C800
C750
C601
Q810
R631
D620
R625
R626
C611
IC801
R823
C868
R822
R821
R826
C767
C700
L700
C871
R622
Q800
R702
C765
Q806
R818
C856
IC601
R701
D710
C815
R819
C670
C875
R825
R700
R817
Q700
C766
D867
C870
C672
R620
R621
C857
C880
C770
C769
R816
R815
IC800
R810
C768
R705
C771
R703
Q803
R704
VR700
C660
C759
C859
Q801
C810
Q802
C655
D700
R713
R805
R811
C777
R718
R711
R806
R812
IC700
D712
C778
R807
Q804
R630
R712
L702
C858
R614
R612
C663
R627
C661
R613
C776
D750
R611
R610
D621
D615
C662
C773
C780
R717
R710
C738
C756
C751
C754
C785
R715
C794
C788
C775
C784
C786
C787
C796
C860
D861
C767
C732
C753
C755
C781
C782
C783
C790

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitors					
C100	2895 0595	Chip Tantalum	ECST0JY225R	10	27	C
C110	2804 8491	Electrolytic	10RC470	10	38	C
C115 *O	2801 8344	Electrolytic	63RC2-3R3MS	20	13	C
C116 *O	2801 8337	Electrolytic	16RC2-10-G6	20	12	C
C117	2801 7042	Electrolytic	6.3RCS-220	10	38	C
C118 *O	2801 8351	Electrolytic	63RC2-4R7MS-G5	20	14	C
C119 *O	2801 8358	Electrolytic	16RC2-10-G5	20	13	C
C120 *O	2845 1155	Electrolytic (OS)	6SC10M	10	30	C
C150	2892 0172	Chip	GR40Y5V103Z50PT	10	9	C
C151	2892 0172	Chip	GR40Y5V103Z50PT	10	9	C
C152	2897 0189	Chip	GR40W5R682K50PT	20	8	C
C153	2897 0343	Chip	GR40SL681J50PT	20	12	C
C154	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C157 *O	2897 0686	Chip	GR42-6W5R103K100PT	20	12	C
C158	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C159	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C160 *O	2897 0686	Chip	GR42-6W5R103K100PT	20	12	C
C161	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C162	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C190	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C200 *O	2895 0210	Chip tantalum	ECST1VY104R	10	27	C
C201	2895 0595	Chip tantalum	ECST0JY225R	10	27	C
C202	2895 0595	Chip tantalum	ECST0JY225R	10	27	C
C203	2895 0133	Chip tantalum	ECST1EY474R	10	27	C
C214	2801 7322	Electrolytic	6.3RC2-47MS-G6	20	15	C
C219 *O	2845 1176	Electrolytic (OS)	6SC6R8M	10	29	C
C250	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C251	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C252	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C253	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C254	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C258	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C259	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C260	2897 0245	Chip	GR40CH180J50PT	20	6	C
C261	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C265		Not used				
C266	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C270	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C271	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C274	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C275	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C276	2892 0844	Chip	GR42-6Y5V474Z16PT	20	27	C
C280	2892 0091	Chip	GR40W5R223K25PT	10	15	C
C281	2892 0407	Chip	GR40CH270J50PT	10	10	C
C282	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C286	2892 0890	Chip	GR40PH560J50PT	20	13	C
C287	2897 0133	Chip	GR40CH0R5C50PT	20	7	C
C288	2892 0890	Chip	GR40PH560J50PT	20	13	C
C289	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C290	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C291	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C292	2897 0112	Chip	GR40W5R562K50PT	20	12	C
C295	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C303 *O	2895 0770	Chip tantalum	ECST1AY155R	10	27	C
C304	2895 0133	Chip tantalum	ECST1EY474R	10	27	C
C305	2895 0133	Chip tantalum	ECST1EY474R	10	27	C
C306	2895 0133	Chip tantalum	ECST1EY474R	10	27	C
C307		Not used				
C308 *O	2801 8400	Electrolytic	16RC2-10-G12	20	13	C
C310 *O	2845 1176	Electrolytic (OS)	6SC6R8M	10	29	C
C314 *O	2801 8365	Electrolytic	10RC2BP-10-G5	20	23	C
C350	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C

Linear PCB No. 2

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
C351	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C353	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C355	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C356	2892 0318	Chip	GR40CH820J50PT	10	11	C
C360		Not used				
C361	2892 0113	Chip	GR40CH150J50PT	10	10	C
C362	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C363	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C365	2892 0326	Chip	GR40CH101J50PT	10	11	C
C366		Not used				
C368		Not used				
C369		Not used				
C370		Not used				
C373	2892 0113	Chip	GR40CH150J50PT	10	10	C
C374	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C375	2897 0126	Chip	GR40CH221J50PT	20	9	C
C378	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C379	2897 0126	Chip	GR40CH221J50PT	20	9	C
C380	2892 0407	Chip	GR40CH270J50PT	10	10	C
C381	2892 0407	Chip	GR40CH270J50PT	10	10	C
C382	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C383	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C391	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C400 *O	2801 8372	Electrolytic	50RC2-1-G5	20	13	C
C450	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C454	2892 0229	Chip	GR40W5R103K25PT	10	12	C
C455	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C490	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C491	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C610	2805 2511	Electrolytic	10RC2-220MS	20	25	C
C611	2805 2499	Electrolytic	6.3RC2-100MS	20	18	C
C650		Not used				
C651		Not used				
C654		Not used				
C655		Not used				
C798	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C799	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C850	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C913 *O	2845 1183	Tlectrolytic (OS)	10SC10M	10	40	C
C940	2820 3268	TF capacitor	ECQ-V1H154JZ	10	29	C
C941 *O	2813 1407	Ceramic capacitor	CC45SL3FD121J	20	21	C
C950		Not used				
C960		Not used				
	Diodes					
D100	2315 0166	Chip zener	MA3047-L(TX)	10	30	C
D110	2305 1010	Chip	MC2838-T1	10	21	C
D113	2390 0469	Chip	MA157A-(TX)	20	19	C
D114	2305 1010	Chip	MC2838-T1	10	21	C
D115	2305 1010	Chip	MC2838-T1	10	21	C
D116	2390 0651	Chip	MA158-(TX)	20	50	C
D150	2314 0204	Chip schottoky	MA701-(TX)	10	55	C
D153	2314 0204	Chip schottoky	MA701-(TX)	10	55	C
D310 *O	2390 0735	Chip schottoky	MA143-(TX)	20	24	C
D400	2360 0854	Chip zener	MA3100-M(TX)	20	17	C
D410 *O	2390 0735	Chip schottoky	MA143-(TX)	20	24	C
	Filters and Traps					
F200	3025 0189	SAW filter	SAF39.5MZ60Z	1	150	C
F201	3025 0154	SIF filter	EFC-S6R0MS6	10	38	C
F202	3850 1496	Ceramic Discriminator	CDA5.5MC30	5	68	C
F203	3850 1372	SIF trap	TPS6.0MB	10	30	C
F300	3850 1380	Chroma trap	TPS4.43MJ	5	55	C

Linear PCB No. 3

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	ICs					
IC200	2120 6539	Linear	M51348FP	1	450	B
IC300	2114 0350	Linear	M51403FP	1	470	B
IC400	2114 0182	Linear	MSC1169MS-K	1	140	B
IC600	2120 8876	Linear	NJM386-M	11	140	B
	Inductors					
L100	3013 0161	Chip inductor	NL453232-100K-2-TP	10	32	C
L101	3013 0161	Chip inductor	NL453232-100K-2-TP	10	32	C
L102	3130 0021	Chip inductor	NL453232-101K-2-TP	10	33	C
L103	3013 0021	Chip inductor	NL453232-101K-2-TP	10	33	C
L200	3018 0550	Chip inductor	MLF3216DR82K-TP	10	50	C
L201		Not used				
L205	3013 0581	Not used	MLF3216C150K-TP	10	30	C
L300 *O	3013 0637	Not used	MLF3216C220K-TP	10	29	C
L902	3841 1306	Choke coil	TSL0707-101KR66	5	74	C
	Transistors					
Q100	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q101	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q102	2252 0056	Chip	2SC2873-YTE12L	10	44	C
Q200	2221 2478	Chip	2SC2757-T1BT33, 34	20	29	C
Q300	2253 0133	Chip	2SD1819A-R(TX)	20	12	C
Q301 *O	2251 0189	Chip	2SB1218A-R(TX)	20	10	C
Q915 *O	2253 0308	Chip	2SD1119-R(TX)	10	36	C
Q916	2253 0308	Chip	2SD1119-R(TX)	10	36	C
	Resistors					
R100		Not used				
R101		Not used				
R105	2791 1170	Chip	ERJ-6GEYJ182V	20	3	C
R106	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R107	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R108	2791 1404	Chip jumper	ERJ-6GEY0R00V	10	5	C
R109	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R110	2791 0572	Chip	ERJ-6GEYJ101V	10	5	C
R200	2791 0688	Chip	ERJ-6GEYJ220V	20	3	C
R201	2791 0572	Chip	ERJ-6GEYJ101V	10	5	C
R202	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R203	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R204	2791 0831	Chip	ERJ-6GEYJ681V	20	4	C
R205	2791 0688	Chip	ERJ-6GEYJ220V	20	3	C
R206 *O	2797 0777	Chip	ERJ-6GEYJ121V	20	2	C
R210	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R214	2791 0313	Chip	ERJ-6GEYJ103V	20	3	C
R215	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
R216	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R220	2797 1008	Chip	ERJ-6GEYJ563V	20	6	C
R223	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R228	2791 0696	Chip	ERJ-6GEYJ470V	20	4	C
R229	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R230	2797 0938	Chip	ERJ-6GEYK225V	20	2	C
R233	2791 1420	Chip	ERJ-6GEYJ331V	20	6	C
R234	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R235	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R236	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R237	2791 2176	Chip	ERJ-6GEYJ471V	20	3	C
R238	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R239	2791 1919	Chip	ERJ-6GEYJ274V	20	3	C
R240	2791 1420	Chip	ERJ-6GEYJ331V	20	6	C
R241		Not used				
R245	2791 0580	Chip	ERJ-6GEYJ392V	10	4	C
R246	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R247	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
R248	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R249	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C

Linear PCB No. 4

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
R250	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R251		Not used				
R252	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R253	2792 0110	Chip jumper	ERJ-6GEY0R00 (for CF Version)	20	3	C
R254	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R300	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R301	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R302	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R303	2791 0712	Chip	ERJ-6GEYJ152V	20	4	C
R306	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R307	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R308	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R309	2791 2141	Chip	ERJ-6GEYJ273V	20	4	C
R312	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
R313	2791 1390	Chip	ERJ-6GEYJ473V	10	5	C
R316	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R317	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R320	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R321	2791 0572	Chip	ERJ-6GEYJ101V	10	5	C
R325	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R326	2791 1633	Chip	ERJ-6GEYJ123V	20	3	C
R327	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R328	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R329	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R400	2791 1684	Chip	ERJ-6GEYJ183V	20	3	C
R401	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R404	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R405	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R406	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R407	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R408	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R409	2797 0028	Chip	ERJ-6GEYJ683V	20	3	C
R416	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R417	2792 0110	Chip jumper	ERJ-6GEYJ0R00V	20	3	C
R418	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R419	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R420	2797 1008	Chip	ERJ-6GEYJ563V	20	6	C
R421	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
R424	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R425	2791 2109	Chip	ERJ-6GEYJ393V	20	3	C
R426	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
R427	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
R430	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R431	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
R432		Not used				
R433	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
R600		Not used				
R605	2791 0823	Chip	ERJ-8GEYJ220V	10	5	C
R606	2791 0823	Chip	ERJ-8GEYJ220V	10	5	C
R607	2791 0696	Chip	ERJ-6GEYJ470V	20	4	C
R800	2791 0313	Chip	ERJ-6GEYJ103V	10	5	C
R801		Not used				
R802	2791 1684	Chip	ERJ-6GEYJ183V	20	3	C
R803	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R930	2791 1072	Chip	ERJ-8GEYJ182V	10	5	C
R931	2791 1072	Chip	ERJ-8GEYJ182V	10	5	C
	Variable	Resistors				
VR100	2771 0310	Semi-fixed resistor	EVM-07SW00B23	10	40	C
VR200	2771 0212	Semi-fixed resistor	EVM-07SW00B54	10	50	C
VR300	2771 0204	Semi-fixed resistor	EVM-17SW00B24	10	50	C
VR301	2775 0077	Semi-fixed resistor	H0614D-47KB	20	26	C
VR400	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C
VR402	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C

Linear PCB No. 5

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
VR404	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C
VR600 *O	2765 0784	Volume	RK09H11T-50KB	5	64	C
VR800 *O	2765 0658	Volume	RK09H11T-20KA	5	64	C
	Other Electronic Parts					
CN101 *O	3501 3227	Connector	52030-2220	1	88	C
H300	2590 0245	Crystal oscillator	AT-51C	1	120	C
JK101	3510 8114	Jack (CA Version only)	HSJ-0836-01-010	10	30	C
JK102	3510 8114	Jack (Phone)	HSJ-0836-01-010	10	30	C
JK103	3240 1791	Jack (Audio/Video)	HSJ-0863-01-410	1	110	C
JK104	3501 1407	Jack (Power)	HEC0779-01-030	5	56	C
SW101*O	3412 0469	Switch (Down)	SKHHLN	20	24	C
SW102*O	3412 0469	Switch (Up)	SKHHLN	20	24	C
SW103*O	3412 0476	Switch (Power)	HSW1698-01-060	5	56	C
T100 *O	3065 0161	DC-DC converter trans.	LC128-02	1	100	C
T200	3841 1250	Coil	5KVC-03	5	59	C
T201	3841 1250	Coil	5KVC-03	5	59	C
T301	3841 0392	Coil	5PBC-01	5	59	C
T900 *O	3012 0301	Inverter trans.	TDA-10	1	270	C
TC300	2898 0028	Trimmer capacitor	ECR-RN035L72D	10	42	C
TM100	2775 0182	Chip thermister	N32163DH102K	10	30	C
TM400	2775 0203	Chip thermister	N32164BH154K	10	30	C
TM800	2775 0168	Chip thermister	N32163RH203K	10	32	C
TU	1012 2590	Tuner (for CF Version)	TEPE2-03	1	850	C
TU	1012 7612	Tuner (for CA Versino)	TEPE2-02	1	850	C

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitors					
C660	2897 0609	Chip (CF only)	GR40W5R821K50PT	10	9	C
C661	2892 0237	Chip (CF only)	GR40W5R222K50PT	1	9	C
C662	2897 0084	Chip (CF only)	GR42-6Y5V105Z16PT	20	3	C
C663	2892 0237	Chip (CF only)	GR40W5R222K50PT	1	9	C
C670	2897 0084	Chip (CF only)	GR42-6Y5V105Z16PT	20	3	C
C671	2892 0253	Chip (CF only)	GR42-6Y5V224Z25PT	10	24	C
C672	2892 0059	Chip (CF only)	GR40Y5V103Z50PT	10	9	C
C700	2895 0189	Chip tantalum	ECST0JY335R	10	30	C
C710		Not used				
C750	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C752	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C753	2892 0296	Chip	GR40CH390J50PT	10	9	C
C754	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C755	2892 0296	Chip	GR40CH390J50PT	10	9	C
C756	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C757	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C758	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C759	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C765	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C766	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C767	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C768	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C769	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C770	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C771	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C773	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C775	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C776	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C777	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C778 *O	2897 0469	Chip	GR40UJ470J50PT	20	7	C
C780	2892 0296	Chip	GR40CH390J50PT	10	10	C
C781	2892 0296	Chip	GR40CH390J50PT	10	10	C
C782	2892 0296	Chip	GR40CH390J50PT	10	10	C
C783	2892 0296	Chip	GR40CH390J50PT	10	10	C
C784	2892 0296	Chip	GR40CH390J50PT	10	10	C
C785	2892 0296	Chip	GR40CH390J50PT	10	10	C
C786	2892 0326	Chip	GR40CH101J50PT	10	11	C
C787	2892 0326	Chip	GR40CH101J50PT	10	11	C
C788	2892 0326	Chip	GR40CH101J50PT	10	11	C
C789		Not used				
C790	2892 0130	Chip	GR40Y5V102Z50PT	10	9	C
C791		Not used				
C792		Not used				
C793	2892 0130	Chip	GR40Y5V102Z50PT	10	9	C
C794	2892 0113	Chip	GR40CH150J50PT	10	10	C
C795	2892 0113	Chip	GR40CH150J50PT	10	10	C
C800	2895 0595	Chip	ECST0JY225R	10	27	C
C801 *O	2895 0126	Chip tantalum	ECST1CY105R	10	27	C
C810	2800 9945	Electrolytic	50RC2-4R7MS	20	14	C
C811		Not used				
C855	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C856	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C857	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C858	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C859	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C860	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C861	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C865		Not used				
C866		Not used				
C867	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C868	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C870 *O	2897 0728	Chip	GR42-6Y5V104Z50PT	20	14	C

A/D PCB No. 2

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	
C871	2897 0140	Chip	GR42-6Y5V224Z50PT	20	21	C
C872		Not used				
C873		Not used				
C875	2892 0844	Chip	GR42-6Y5V474Z16PT	20	27	C
C876		Not used				
C877		Not used				
C880	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C881	2897 0168	Chip	GR40CH391J50PT	10	9	C
	Diodes					
D615	2390 0406	Chip (CF only)	MC2836-T1	20	9	C
D620	2305 1010	Chip (CF only)	MC2838-T1	10	21	C
D621	2305 1010	Chip (CF only)	MC2838-T1	10	21	C
D700 *O	2360 0861	Chip zener	MA3100-M(TX)	20	17	C
D710	2305 1010	Chip	MC2838-T1	10	21	C
D712	2305 1010	Chip	MC2838-T1	10	21	C
D750 *O	2390 0462	Vari. cap	MA366-(TX)	10	33	C
D800 *O	2360 0861	Chip zener	MA3100-M(TX)	20	17	C
D810	2390 0728	Chip	MC2848-T1	20	9	C
	ICs					
IC601	2100 4618	C-MOS IC (CF only)	TC4001BF	1	100	B
IC700*O	2010 5999	LSI	MSM6348GS-K	1	530	B
IC800	2114 1295	Linear IC	LA5313M	1	180	B
IC801	2010 4382	LSI	MSM6362MS-K	1	100	B
	Inductors					
L700	3013 0021	Chip inductor	NL453232-101K-2-TP	10	33	C
L702 *O	3013 0245	Chip inductor	NL322522-100J-1-TP	10	25	C
	Transistors					
Q700	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q800 *O	2251 0189	Chip	2SB1218A-R(TX)	10	20	C
Q801	2251 0189	Chip	2SB1218A-R(TX)	10	20	C
Q802	2253 0133	Chip	2SD1819A-R(TX)	20	13	C
Q803	2253 0133	Chip	2SD1819A-R(TX)	20	13	C
Q806 *O	2251 0189	Chip	2SB1218A-R(TX)	10	20	C
	Resistors					
R610	2791 2117	Chip (CF only)	ERJ-6GEYJ820V	20	4	C
R611	2791 1390	Chip (CF only)	ERJ-6GEYJ473V	10	5	C
R612	2797 0938	Chip (CF only)	ERJ-6GEYK225V	20	2	C
R613	2791 0305	Chip (CF only)	ERJ-6GEYJ472V	20	3	C
R614	2791 2141	Chip (CF only)	ERJ-6GEYJ273V	20	4	C
R620	2791 0742	Chip (CF only)	ERJ-6GEYJ332V	10	5	C
R621	2791 1587	Chip (CF only)	ERJ-6GEYK475V	20	4	C
R622	2791 0742	Chip (CF only)	ERJ-6GEYJ332V	10	5	C
R625	2791 1170	Chip (CF only)	ERJ-6GEYJ182V	20	3	C
R626	2797 1015	Chip (CF only)	ERJ-6GEYK225V	20	3	C
R627	2791 0704	Chip (CF only)	ERJ-6GEYJ561V	20	4	C
R630	2791 2044	Chip (CF only)	ERJ-6GEYJ124V	20	3	C
R631	2791 1901	Chip (CF only)	ERJ-6GEYJ184V	20	3	C
R700	2791 1633	Chip	ERJ-6GEYJ123V	20	2	C
R701	2797 0014	Chip	ERJ-6GEYJ821V	20	3	C
R702	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R703	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R704	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R705	2797 0238	Chip	ERJ-6GEYJ560V	20	3	C
R710	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R711	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R712	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R713	2791 0615	Chip	ERJ-6GEYJ154V	10	5	C
R715	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R716		Not used				
R717	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R718	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R805	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
R806 *O	2797 1225	Chip	ERJ-6GEYF154V	20	6	C

A/D PCB No. 3

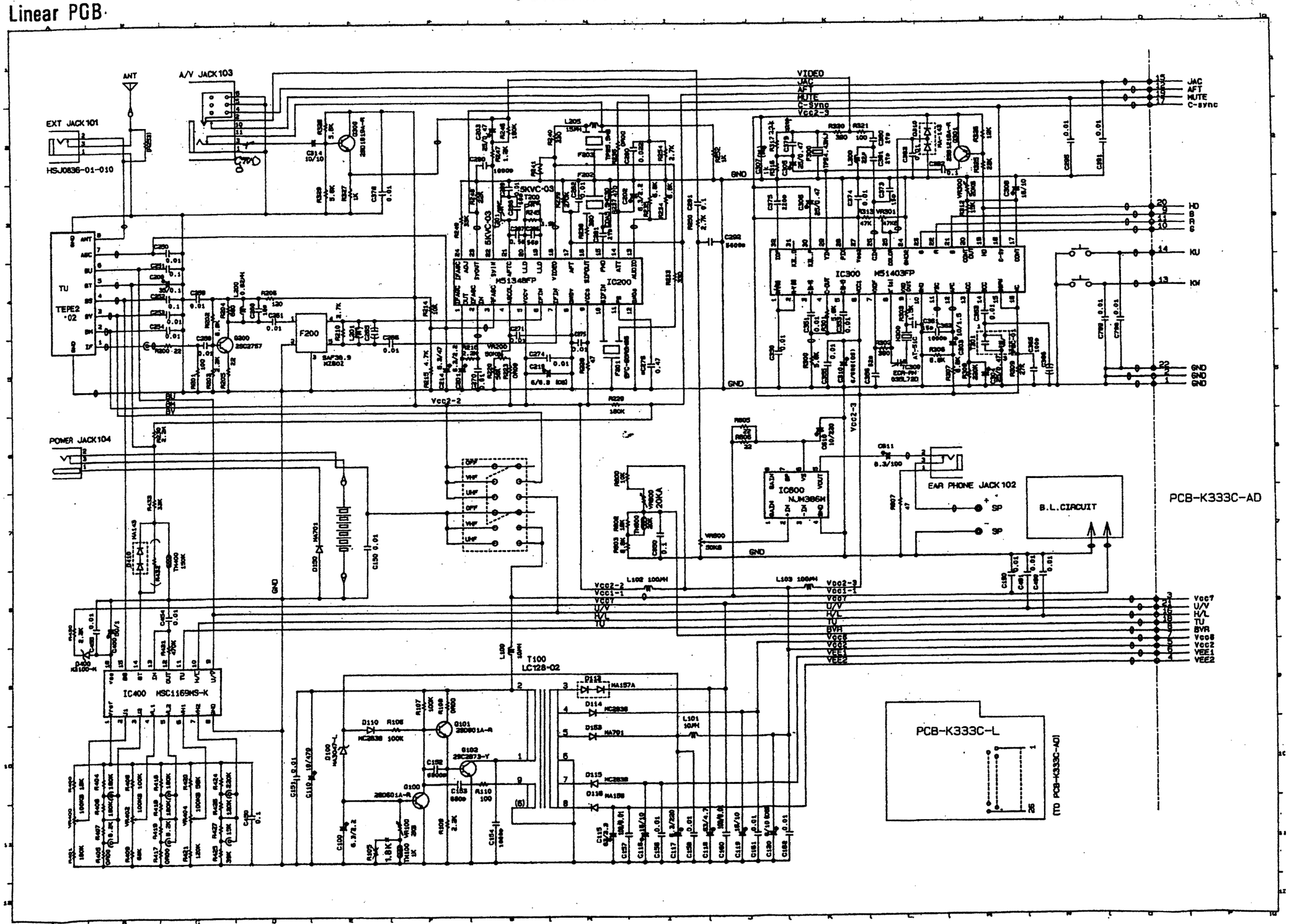
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
R807 *O	2797 1197	Chip	ERJ-6GEYF183V	20	6	C
R810	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
R811 *O	2797 1225	Chip	ERJ-6GEYF154V	20	6	C
R812 *O	2797 1211	Chip	ERJ-6GEYF223V	20	6	C
R815	2791 2109	Chip	ERJ-6GEYJ393V	20	3	C
R816	2797 0042	Chip	ERJ-6GEYJ824V	20	4	C
R817	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R818	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
R819	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R820		Not used				
R821	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R822	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R823	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R825	2792 0110	Chip jumper	ERJ-6GEYJ0R00V	20	3	C
R826	2791 0742	Chip	ERJ-6GEYJ332V	10	5	C
R828	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
	Variable Resistor					
VR700	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	110	C

Mechanical

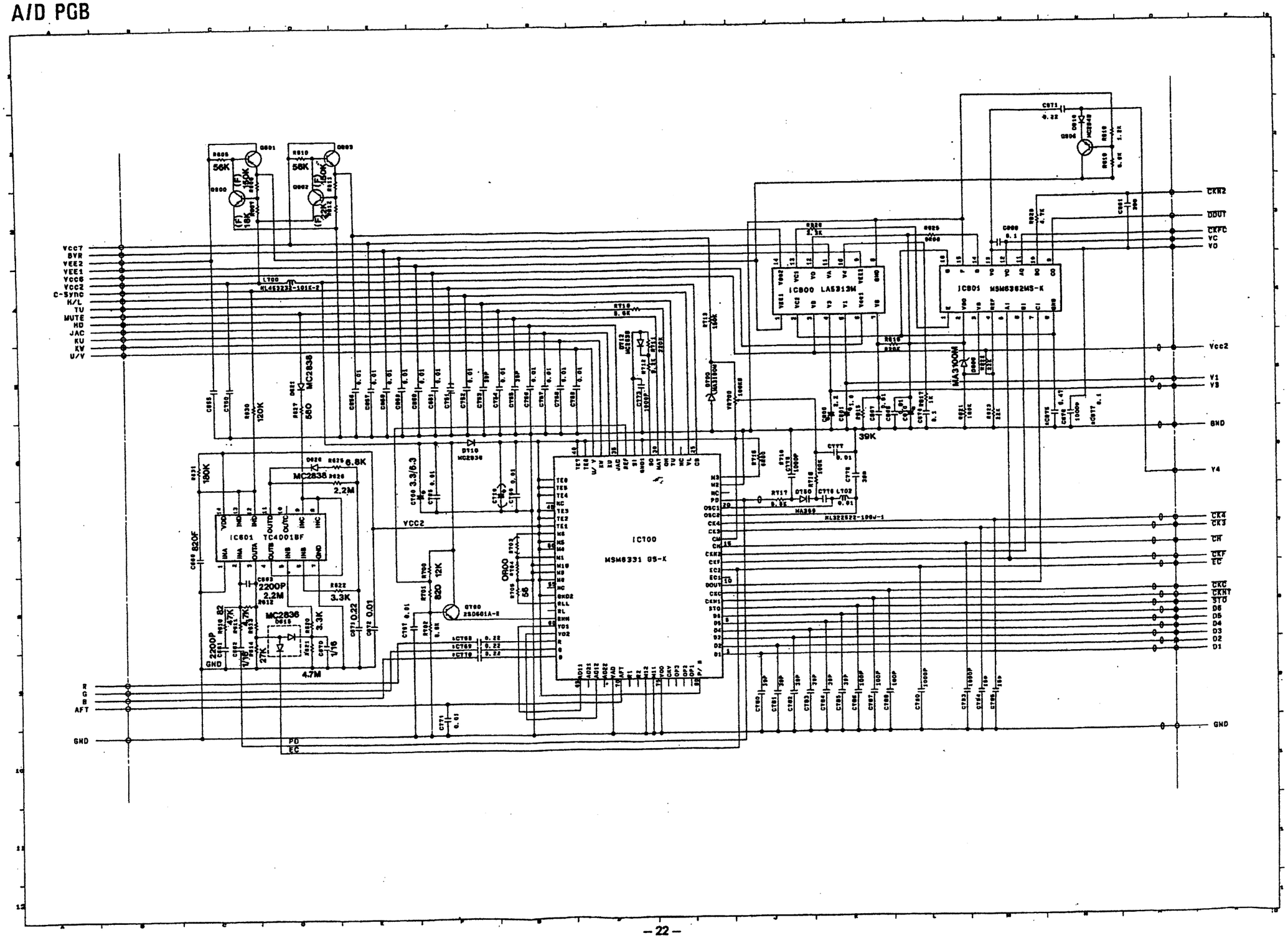
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
1	6605 1200	Display plate C-K333	K410173-2	1	140	C
2	6602 2400	Adhesive tape B-K56	K4677-2	20	4	X
3	6600 4280	Adhesive tape B-K51	K451-15	20	4	X
4	6605 0850	Upper case A-K333 (For CA)	K110053-1	1	180	C
4	6605 1620	Upper case B-K333 (For CF) ✱	K110053-2	1	180	C
5	6605 0540	Slide knob A-K333	K310125-1	20	11	C
6	6605 0600	T button A-K333	K310133-1	10	31	C
7	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50	3	X
8	5860 2380	Precision (+) tap tight	PS 1.7 x 3.5	50	3	X
9	6604 7890	Precision (+) tap tight	K41310-4	50	3	X
10	6605 1117	Shield case ass'y (For CA)	K310172D*2	1	11,300	B
10	6605 1614	Shield case ass'y (For CF)	K310172D*3	1	11,300	B
10 - 1	6338 7840	TS screw	A44527-2	50	3	X
10 - 2	6605 0790	S case A-K333	K210119-1	5	51	C
10 - 3	6605 0810	Diffusion reflector plate K333	K210117-1	10	38	X
10 - 4	6605 0230	Cable A-K334	K210097-1	1	110	C
10 - 5	6603 1230	Insulation plate A-K67	K4670-12	20	4	X
10 - 6	6605 1710	Insulation plate B-K333	K410293-1	20	5	X
10 - 7	6605 0800	S case B-K333	K210120-1	10	40	C
10 - 8	6605 0690	Shield plate A-K333	K410240-1	20	21	X
10 - 9	6604 7780	Precision (+) tap tight	K41310-3	50	3	X
11	6605 1720	Felt A-K333	K410292-1	20	4	X
12	3632 0028	Temperature fuse	SM098B-1	10	37	B
13	4309 2080	PCB-K333-AD	K310117-1	1	390	X
14	3851 0882	Fluorescent lamp	81PE2778AD1P7D	1	690	B
15	6600 4280	Adhesive tape B-K51	K451-15	20	4	X
16	6605 0840	Reflection tape A-K333	K410221-1	20	18	X
17	6605 0820	Reflection plate K333	K210121-1	5	55	X
18	6603 1230	Insulation plate A-K67	K4670-12	20	4	X
19	3831 0161	Speaker	36TH03B	1	210	B
20	5860 0420	Precision (+) tap tight	BT3 1.7 x 4Ni	50	3	X
21	6605 1410	B spring A-K333	K310124-2	20	12	B
22	6605 0260	B spring A-K334	K410152-1	20	10	B
23	6605 0020	Mount plate A-K334	K410186-1	20	26	X
24	6605 0240	S case C-K334	K310122-1	10	29	C
25	6605 0530	Insulation plate A-K338	K410197-1	20	6	X
26	3851 0854	Rod antenna ✓	YC-KX-337-A1	1	450	B
27	6605 0030	Antenna terminal K334	K410185-1	20	17	X
28	6605 1190	Lower case B-K333	K110044-2	5	95	C
29	6605 0010	Flat Screw A-K334	K410098-1	50	3	X
30	6604 9980	Screw A-K334	K410188-1	50	3	X
31	6603 8921	C knob A-K310	K374A1-1	20	12	C
32	5860 2380	Precision (+) tap tight	PS3 1.7 x 3.5BK	50	3	X
33	6600 4800	Battery spring B-K51	K4137-1	20	17	B
34	6605 0050	B spring B-K338	K310136-1	10	29	B
35	6605 1180	Rating plate C-K333 (For CA)	K410205-3	20	16	X
35	6605 1630	Rating plate CF-K333 (For CF)	K410205-2	20	16	X
36	6605 0470	Battery cover A-K333	K210101-1	10	28	C
37	6604 9960	Stand A-K334	K410180-1	10	34	C

SCHEMATIC DIAGRAM

Linear PCB



A/D PCB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IC801 MSM6362MS-K
IC100
MSM6331 05-K
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MC2836
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AFT
PD
EC
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VC
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V1
V8
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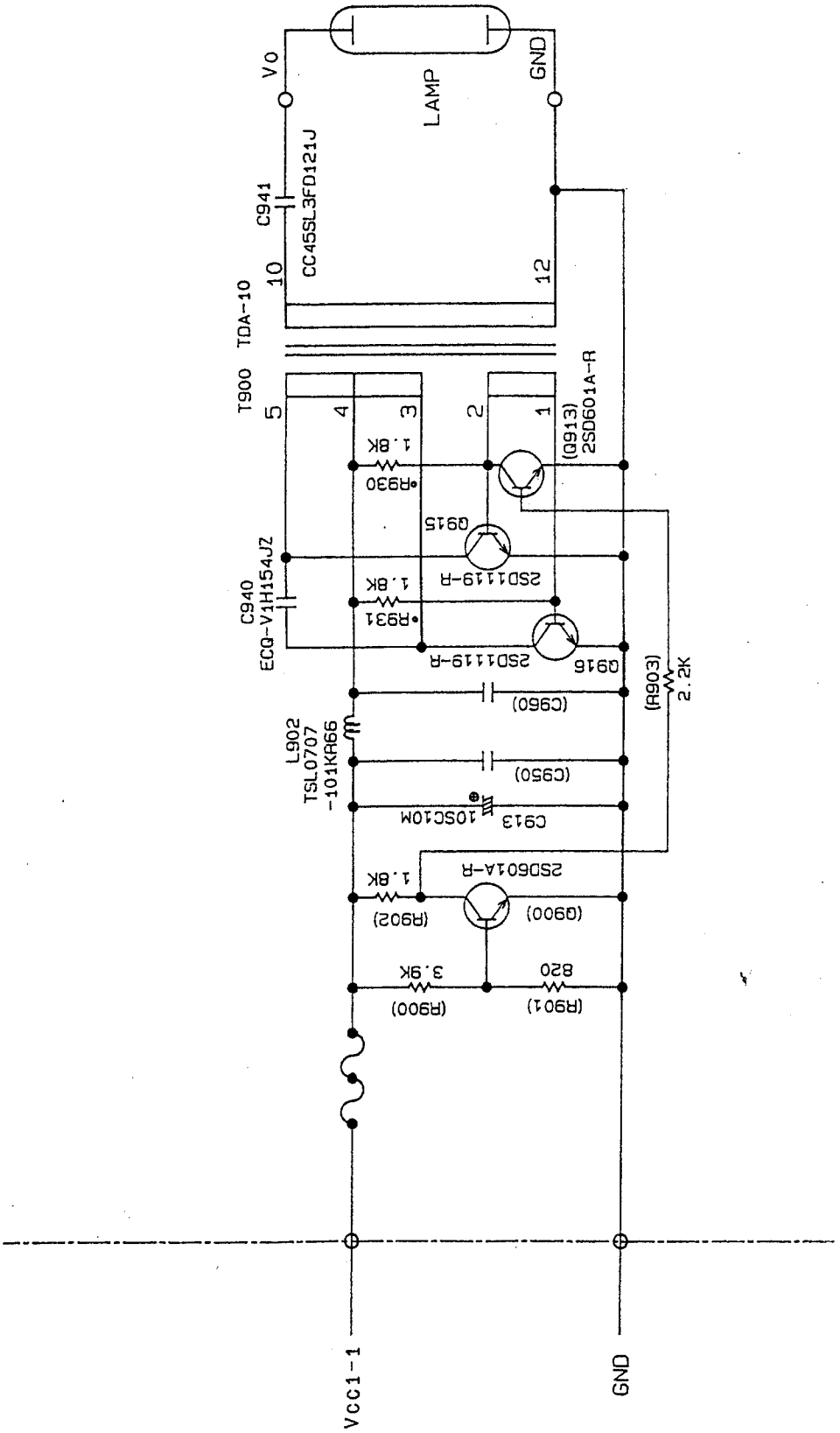
BL PCB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